

TABLE S-2 Summary of Alternatives Considered for the Portsmouth Conversion Facility EIS

| Alternative | Description | Options Considered |
|------------------------------------|--|---|
| No Action | Continued storage of the DUF ₆ cylinders indefinitely at the Portsmouth and ETTP sites, with continued cylinder surveillance and maintenance. | None. |
| Proposed Action | <p>Construction and operation of a conversion facility at the Portsmouth site for conversion of the Portsmouth and ETTP DUF₆ inventories into depleted uranium oxide (primarily U₃O₈) and other conversion products. This EIS assesses the potential environmental impacts from the following proposed activities:</p> <ul style="list-style-type: none"> • Construction, operation, maintenance, and D&D of the proposed DUF₆ conversion facility at the Portsmouth site; • Transportation of DUF₆ and non-DUF₆ cylinders from ETTP to Portsmouth; • Construction of a new cylinder storage yard (if required) for ETTP cylinders; • Transportation of uranium conversion products and waste materials to a disposal facility; • Transportation and sale of the HF conversion product; and • Neutralization of HF to CaF₂ and sale or disposal in the event that the HF product is not sold. | <p><i>ETTP Cylinders:</i> This EIS considers an option of shipping cylinders at ETTP to Paducah.</p> <p><i>Transportation:</i> This EIS evaluates the shipment of cylinders and conversion products by both truck and rail.</p> <p><i>Expanded Operations:</i> This EIS discusses the impacts associated with potential expansion of plant operations by extending the operational period and by increasing throughput (by efficiency improvements or by adding a fourth process line).</p> |
| Alternative Location A (Preferred) | Construction of the conversion facility at Location A, an area that encompasses 26 acres (10 ha) in the west-central portion of the site. | |
| Alternative Location B | Construction of the conversion facility at Location B, an area that encompasses 50 acres (20 ha) in the southwest portion of the site. | |
| Alternative Location C | Construction of the conversion facility at Location C, an area that encompasses 78 acres (31 ha) in the southeast portion of the site. | |